Ecolink DWZW8-ECO Long Range Contact Sensor

INTRODUCTION

Contact sensors are designed to secure the perimeter of the residential premises and provide the ability to add various automation services. The Contact sensor, which consists of a magnet that attaches to a door or window, will communicate door events to the home security system. When the magnet is moved away from the sensor, a signal will be sent to the control panel that communicates the changed state to the security system. Signals can also be used to activate a chime or convenience lighting based on system settings.

SPECIFICATIONS

Frequency: 908.42MHz, 916MHz, 912MHz, 920MHz
Battery Type: CR2450 Battery
Operating Temperature: 0˚C – 50˚C (32°F – 122°F)
Battery Life: 5 Years
Range: Up to 700ft standard Z-Wave®; 1000ft Long Range

Dimensions:

Sensor: 59 x 29 x 11 mm (2.32" x 1.14" x 0.43")
Magnet: 59 x 10 x 11 mm (2.32" x 0.39" x 0.43")
Magnet Spacer: 59 x 10 x 2 mm (2.32" x 0.39" x 0.078")

Adding to a Z-wave® Network

To enable Long Range mode, if supported by the Z-Wave Controller, you likely will add it via the Smart Start QR-Code in your Panel/Hub's app.

This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

Adding via SmartStart

1. If the battery tab is installed, proceed to Step 2 (Figure 1). Or remove the sensor's battery, so the sensor is off (Figure 2).
2. On your Z-Wave Controller's app, follow instructions on adding via QR-Code or SmartStart.
3. Pull the battery tab or install a battery into the device, (+) side up. The device may take a few minutes to be added.

Adding via Classic Inclusion / Network-Wide Inclusion

1. If your Z-Wave controller supports S2 encryption, locate the PIN Code (DSK) which will enable S2 communication. It is located below the SmartStart QR-Code that is included in the box, and on the device itself.
2. Follow the instructions of the Z-Wave controller to enter manual or classic Z-Wave inclusion mode.
3. Press the recessed learn button on the sensor (Figure 3). The sensor will attempt to add itself.
4. If prompted, enter the Pin Code (DSK) into the Controller's user interface which enables S2 communication.

Notes:

The sensor's LED will "breath" to indicate that the sensor is actively looking to be added into a Z-Wave network. While sensor is being added, the sensor's LED will blink green rapidly.

When successfully added, the sensor's LED will turn green for three seconds then the LED will turn off.

SmartStart enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code present on the product with a controller providing SmartStart inclusion. No further action is required and the SmartStart product will be added automatically within 10 minutes of being switched on in the network vicinity.

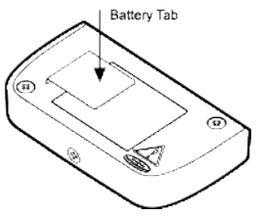

Figure 1

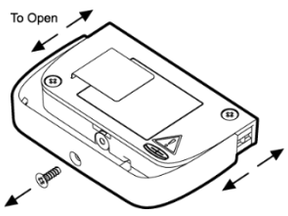

Figure 2

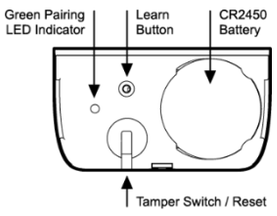

Figure 3


Figure 4

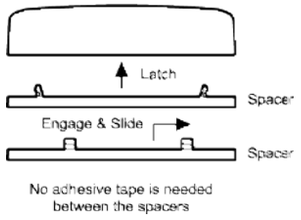

Figure 5

INSTALLATION

To install the DWZW8-ECO, follow the following steps:

1. Please make sure that the sensor and magnet are located less than 6 mm (0.25 inch) from each other. For optimal performance, it is highly recommended to install the Door/Window sensor on the fixed frame and the magnet on the moving part of the door/window. Place the sensor on the frame near the top of the door, close to the opening edge of the door. This is the mounting location for the sensor.
2. Use the provided larger double-sided tape on the sensor. Attach the sensor to the door/window frame. Press firmly and hold in place for a few seconds. Secure it with silicone if needed.
3. Spacers are used to raise the level of the magnet to be level/closer to sensor. The spacers are 2 mm (0.078") thick. If needed, install one or both spacers as shown (Figure 5). No adhesive tape is needed between the magnet and spacers, they will snap together.
4. Make sure the alignment of both sensor and magnet is correct (Figure 4). Use provided smaller double-sided tape on the back of the assembled magnet and spacers. Press firmly and hold in place for a few seconds. Secure tape-mounted parts with silicone if needed.

OPERATION

1. The LED will stay off during normal operation.
2. The sensor is equipped with a tamper switch (Figure 3). If the cover of sensor is removed, the sensor will send an alarm to the home controller or security system.
3. A separation gap of 32 mm (1.25") to 50 mm (2") between the sensor and the magnet will report open/close events to your security system or home controller during normal operation.
4. When included in a Z-Wave network, the sensor sends a Wake-Up Notification to the controller, enabling the controller to configure the sensor, check status, or perform firmware updates. These notifications occur at regular intervals, once with a single-shot timer, when the case is removed, or if requested via a Supervision Report.

Removing from a Z-wave® Network:

1. Follow the Z-Wave controller's instructions on putting the Z-Wave controller into removal/exclusion mode.
2. Remove the sensor's cover (Figure 2), Then press the sensor's recessed learn button (Figure 3).
3. Upon successful removal, the sensor's Status LED will turn red for 1 second. Then the Status LED will continuously "breathe" green three times every three seconds to indicate that it is ready to be added again.
4. If not successful, exclusion will timeout after 5 seconds. After which time, you may try again.

RESET TO FACTORY DEFAULTS

Factory resetting the sensor will default all configurations and remove the device from the previous Z-Wave network. After factory reset, it is possible that the sensor will still appear as an orphaned node on a previously paired Z-Wave controller, so you would need to follow that Hub/Panels instructions on force removing the orphaned node. N*ote: Factory reset only works when the device is already added into a Z-Wave network. If the sensor is not included in a network, then it cannot be factory reset.*

1. Hold the recessed learn button for 3 seconds. The LED will blink red rapidly during this time.
2. When the sensor's LED lights turn green for five seconds, release the button. The sensor is now ready to be added to a Z-Wave network.

TROUBLESHOOTING

If device is unable to be added to the Z-wave network:

1. Try removing the device from the paired network by using the "Removing from a Z-wave Network" procedure.
2. If device continues to have trouble pairing, use "Reset to Factory Defaults" procedure to attempt pairing again.

If device can't see door/window open or close, open the sensor's case (Figure 2), and observe the LED when you open and close the door/window.:

1. If the device LED blinks green, then it's not a problem with the sensor. Try following the Z-wave controller troubleshooting steps.
2. If the device LED breaths red 3 times, then it is out of range of the Z-Wave Controller.

If device is unable to determine if it's learned into a Z-Wave Controller:

1. If the device is continuously blinking green, then it is not added to a Z-Wave network. Refer to the "Adding to a Z-wave Network" section, to add it to the Z-wave network.
2. If device is still unable to be interpreted by the Z-wave controller, then Factory reset the sensor and re-add it.

FCC COMPLIANCE STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

a. Re-orient or relocate the receiving antenna
b. Increase the separation between the equipment and receiver
c. Connect the equipment to an outlet on a different circuit from the receiver
d. Consult the dealer or an experienced radio/TV contractor for help

WARNING: Changes or modifications not expressly approved by Ecolink Intelligent Technology Inc. could void the user's authority to operate the equipment.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

C'et appareil est conforme la norme d'Industrie Canada exempts de licence RSS. Son fonctionnement est soumis aux deux conditions suivantes: (1) c'et appareil ne peut pas provoquer d'interférences, et (2) c'et appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de la dispositif.

FCC ID: MG3-DWZW8ECO IC: 2575A-DWZW8ECO

⚠WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause**Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **Seek immediate medical attention** if a battery is suspectedto be swallowed or inserted inside any part of the body.

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